

JC10 Rec'd PCT/PTO 04 MAR 2002

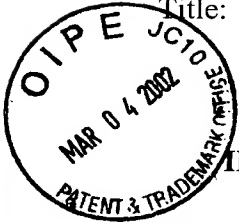
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

International Application No. : PCT/EP00/02117
International Filing Date : 10 MARCH 2000
U.S. Serial No. : 09/936,737
Deposit Date U.S. Nat'l Phase : 17 SEPTEMBER 2001
Priority Date(s) Claimed : 18 MARCH 1999
Applicant(s) : STRITTMATTER, Wolfgang, et al

Title: PROTEIN FOR BLOCKING PLATELET ADHESION

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS
UNDER 35 U.S.C. § 371**

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)



Commissioner for Patents
Box PCT
Washington, D.C. 20231
Sir:

In response to the Notification of Missing Requirements mailed 6 DECEMBER 2001, attached is a Disk and Paper Copy of the Sequence Listing.

Applicants affirm that the paper copy and disk copy are identical.

Applicants request that the time for responding to this action be extended 1 month to 6 MARCH 2002. A check for the statutory fee of \$110.00 is enclosed.

The Patent and Trademark Office is authorized to deduct any additional fees from, or credit any overpayments to, counsel's deposit account No. 13-3402, a copy of this paper being attached.

03/12/2002 UEDUVIJE 00000138 09936737

01 F2:115

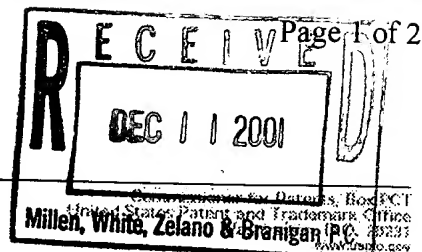
110.00 OP

Respectfully submitted,

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UNITED STATES PATENT AND TRADEMARK OFFICE



U.S. APPLICATION NUMBER NO. 09/936,737	FIRST NAMED APPLICANT Wolfgang Strittmatter	ATTY. DOCKET NO. MERCK 2299
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INTERNATIONAL APPLICATION NO. PCT/EP00/02117

1A. FILING DATE 03/10/2000	PRIORITY DATE
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23599
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
2200 CLARENDON BLVD.
SUITE 1400
ARLINGTON, VA 22201



Date Mailed: 12/06/2001

CONFIRMATION NO. 8947
371 FORMALITIES LETTER
OC00000007162484

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fees
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Oath or Declaration
- Preliminary Amendments

PCT MISSING REQ. DUE

2/6/2002 *[Signature]*

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- * The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - A copy of the "Sequence Listing" in computer readable form has been submitted. The content of the computer readable form, however, does not comply with the requirements of 37 CFR 1.822 and/or 1.832, as indicated on the attached marked-up copy of the "Raw Sequence Listing."
 - The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
 - APPLICANT MUST PROVIDE:
 - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.

[Handwritten mark]

[Handwritten mark]

- For questions regarding compliance to, 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTH FROM THE DATE OF THIS NOTICE OR BY 22 or 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

LAMONT M HUNTER

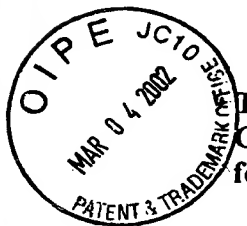
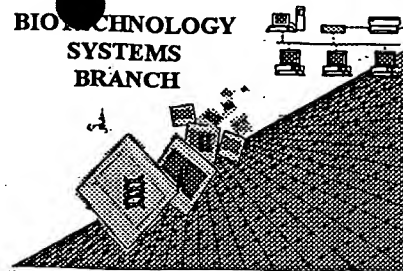
Telephone: (703) 305-3686

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/936,737	PCT/EP00/02117	MERCK 2299

RAW SEQUENCE LISTING ERROR REPORT

BIO TECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/936,737

Source: Pt/09

Date Processed by STIC: 10/4/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

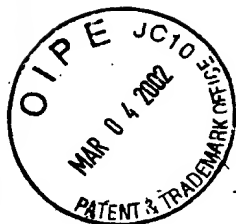
The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

MAIL WITH 905 OFFICE ACTION

Raw Sequence Listing Error Summary



ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/936,737

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,737

DATE: 10/04/2001

TIME: 15:36:11

Input Set : A:\ES.txt

Output Set: N:\CRF3\10042001\I936737.raw

Does Not Comply
Corrected Diskette Needed

Cor

3 <110> APPLICANT: Merck Patent GmbH
5 <120> TITLE OF INVENTION: Protein for blocking platelet adhesion
7 <130> FILE REFERENCE: Saratin Sequence
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/936,737
C--> 10 <141> CURRENT FILING DATE: 2001-09-17
12 <160> NUMBER OF SEQ ID NOS: 12
14 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

```

197 <210> SEQ ID NO: 12
198 <211> LENGTH: 27
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Description of Artificial Sequence: primer10
205 <400> SEQUENCE: 12
206 gcatgaattc gaagaacgtg aagattg
E--> 212 4 - delete

```

see next page

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,737

DATE: 10/23/2001

TIME: 13:41:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10232001\I936737.raw

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70          35          40          45
72 Val Asn Lys Glu Cys Tyr Tyr Asn Val Val Asp Gly Glu Glu Leu Asp
73          50          55          60
75 Gln Glu Lys Phe Val Val Asp Glu Asn Phe Thr Glu Asn Tyr Leu Thr
76 65          70          75          80
78 Asp Cys Glu Gly Lys Asp Ala Gly Asn Ala Ala Gly Thr Gly Asp Glu
79          85          90          95
81 Ser Asp Glu Val Asp Glu Asp
82          100

```

86 <210> SEQ ID NO: 3

87 <211> LENGTH: 23

88 <212> TYPE: DNA

89 <213> ORGANISM: Artificial Sequence

91 <220> FEATURE:

92 <223> OTHER INFORMATION: Description of Artificial Sequence:degenerate

93 primer01

95 <400> SEQUENCE: 3

W--> 96 gargarmg argaytggtg gac

99 <210> SEQ ID NO: 4

100 <211> LENGTH: 23

101 <212> TYPE: DNA

102 <213> ORGANISM: Artificial Sequence

104 <220> FEATURE:

105 <223> OTHER INFORMATION: Description of Artificial Sequence:degenerate

106 primer02

108 <400> SEQUENCE: 4

W--> 109 gargarmg argaytgctg gac

112 <210> SEQ ID NO: 5

113 <211> LENGTH: 24

114 <212> TYPE: DNA

115 <213> ORGANISM: Artificial Sequence

117 <220> FEATURE:

118 <223> OTHER INFORMATION: Description of Artificial Sequence: primer03

120 <400> SEQUENCE: 5

121 gcatcgatgg aagaacgtga agac

124 <210> SEQ ID NO: 6

125 <211> LENGTH: 23

126 <212> TYPE: DNA

127 <213> ORGANISM: Artificial Sequence

129 <220> FEATURE:

130 <223> OTHER INFORMATION: Description of Artificial Sequence: primer04

132 <400> SEQUENCE: 6

133 tagcgctttt gacgtcgctg tca

136 <210> SEQ ID NO: 7

137 <211> LENGTH: 26

138 <212> TYPE: DNA

139 <213> ORGANISM: Artificial Sequence

141 <220> FEATURE:

142 <223> OTHER INFORMATION: Description of Artificial Sequence: primer05

see item 9 on Ena Summary Sheet

item 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/936,737

DATE: 10/04/2001

TIME: 15:36:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\10042001\I936737.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:96 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:96 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:109 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:109 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:212 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:12